

In the Claims:

Please cancel claims 1-24 and 28-29 and add the following new claims in their place:

30. (New) A substantially pure protein having two disulfide-bonded polypeptide chains, each of said chains comprising the amino acid sequence:

V X1 K T R T V I Y E I P R S Q V D P T S A N
F L I W P P X2 V E V K R X3 T G X4 X5 X6 T
S S V K C Q P S R V H H R S V K V A K V E
Y V R K K P K L K E V Q V R L E E H L E C
A C A T T S L N P D Y R E

wherein each of X1, X2, X3, X4, X5, and X6 is any amino acid.

31. (New) A substantially pure protein having two disulfide-bonded polypeptide chains, each of said chains comprising the amino acid sequence:

Q V D P T S A N F L I W P P X2 V E V K R X3
T G X4 X5 X6 T S S V K C Q P S R V H H R S
V K V A K V E Y V R K K P K L K E V Q V
R L E E H L E C A C A T T S L N P D Y R E

wherein each of X2, X3, X4, X5, and X6 is any amino acid.

32. (New) A substantially pure protein having two disulfide-bonded polypeptide chains, each of said chains comprising the amino acid sequence:

V X1 K T R T V I Y E I P R S Q V D P T S A N

F L I W P P X2 V E V K R X3 T G X4 X5 X6 T
S S V K C Q P S R V H H R S V K V A K V E
Y V R K K P K L K E V Q V R L E E H L E C
A C A T

wherein each of X1, X2, X3, X4, X5, and X6 is any amino acid.

33. (New) A substantially pure protein having two disulfide-bonded polypeptide chains, each of said chains comprising the amino acid sequence:

Q V D P T S A N F L I W P P X2 V E V K R X3
T G X4 X5 X6 T S S V K C Q P S R V H H R S
V K V A K V E Y V R K K P K L K E V Q V
R L E E H L E C A C A T

wherein each of X2, X3, X4, X5, and X6 is any amino acid.

34. (New) A substantially pure protein having two disulfide-bonded polypeptide chains, each of said chains comprising the amino acid sequence:

S I E E A V P A V X1 K T R T V I Y E I P R S Q
V D P T S A N F L I W P P X2 V E V K R X3
T G X4 X5 X6 T S S V K C Q P S R V H H R S
V K V A K V E Y V R K K P K L K E V Q V
R L E E H L E C A C A T

wherein each of X1, X2, X3, X4, X5, and X6 is any amino acid.

35. (New) A substantially pure protein having two disulfide-bonded polypeptide chains, each of said chains comprising the amino acid sequence:

S I E E A V P A V X1 K T R T V I Y E I P R S Q
V D P T S A N F L I W P P X V E V K R X3 T
G X4 X5 X6 T S S V K C Q P S R V H H R S V K V A
K V E Y V R K K P K L K E V Q V R L E E H L
E C A C A T T S L N P D Y R E

wherein each of X1, X2, X3, X4, X5 and X6 is any amino acid.

36. (New) A protein according to any one of claims 30 to 35 wherein said protein is unglycosylated.

37. (New) A protein according to any one of claims 30 to 35 wherein X6 is a glutamine residue.

38. (New) A protein according to any one of claims 32, 34 and 35 wherein X1 is a serine residue.

39. (New) A composition comprising a protein according to any of claims 30 to 38 and a physiologically acceptable carrier or diluent.

40. (New) The composition of claim 39, further comprising an adjuvant.

41. (New) A polypeptide comprised of PDGF A-chain homodimer substantially free of PDGF A- and B-chain heterodimer and substantially free of PDGF B-chain homodimer.